

ABSTRACT

Energy saving is one of major issue that mostly concerned, in term source of unrenewal energy is not equal with human consumption. This smart lighting is created because in Indonesia, especially in Telkom University smart lighting is rarely used. This smart lighting will be placed in corridors which connect one building to another. so that the energy consumption is used efficiently. Using Infrared Sensor and Hidden Markov Model logic, this smart lighting will be able to detecs object that walk through the corridor and turns on the light with certain intensity based on distance of the object toward the lamp.

Keyword: *Light, Sensor, Infrared, Hidden Markov Model, NodeMCU*